

Claims:

1. A locking apparatus for a battery, the battery comprising at least one locking portion, the locking apparatus comprising:

- a base defining a cutout;

- a resilient member secured to the base, the resilient member comprising a stop portion;

- a first lock member secured to the base and engaged with the battery, the first lock member defining a first recess and a second recess, and comprising at least one post for engaging with the at least one locking portion of the battery, the first lock member being slidable between a first position and a second position; and

- a button attached to the base, the button comprising an arm;

wherein when the first lock member is pushed in a first direction to the first position, the stop portion of the resilient member abuts the first lock member in the first recess, and the arm of the button is engagingly received in the cutout of the base, whereby the first lock member engages with the battery to secure the battery to the base; and when the button is pressed, the arm of the button is released from the cutout of the base, the first lock member can be slid in a second direction opposite to the first direction to the second position and the stop portion of the resilient member abuts the first lock member in the second recess, whereby the first lock member disengages from the battery release the battery from the base.

2. The locking apparatus as claimed in claim 1, further comprising a first spring arranged between the base and the first lock member, whererin when the first

lock member is in the first position, the first spring is in an original status, and when the first lock member is in the second position, the first spring is in a compressed status.

3. The locking apparatus as claimed in claim 2, further comprising a second spring arranged between the first lock member and the button, wherein when the arm of the button is receivingly engaged in the cutout of the base, the second spring is in an original status, and when the arm is released from the cutout, the second spring is in a compressed status.
4. The locking apparatus as claimed in claim 3, wherein the first lock member comprises a second post, the button defines a countersink, and the first post extends through the second spring and is received in the countersink.
5. The locking apparatus as claimed in claim 1, wherein the base comprises at least a flange, and a battery compartment is defined adjacent the flange for accommodating the battery therein.
6. The locking apparatus as claimed in claim 5, wherein the battery compartment defines a pair of spaced first through holes in a front wall thereof adjacent the flange and a second through hole in a rear wall thereof, the at least one post of the first lock member extends through the first through hole to be engagingly received in the at least one locking portion of the battery.
7. The locking apparatus as claimed in claim 6, wherein the first lock member comprises a pin extending from an end thereof, the base comprises a first plate between the battery compartment and the flange, the pin extends through the first spring and is received in the first cutout.
8. The locking apparatus as claimed in claim 7, wherein the first lock member further defines a first hole in one side thereof, and a second hole and a third hole

adjacent the second hole in an opposite side thereof, the first, second and third holes are respectively bounded by a first, a second and a third bottom, a first gap and a second gap are defined between the first bottom and the second and third bottoms respectively.

9. The locking apparatus as claimed in claim 1, wherein the locking apparatus further comprises a second lock member engaged with the first lock member, the second lock member comprises a front panel, a pair of latches extends rearwardly from the second lock member, a pair of forks extends rearwardly from the second lock member substantially sandwiching the latches therebetween, the latches and the forks respectively extend through the first and second gaps of the first lock member, and the latches snappingly engage with the second and third bottoms of the first lock member.
10. The locking apparatus as claimed in claim 9, wherein the front panel of the second lock member defines a through hole, the button comprises a main body extending through the through hole of the front panel, and the countersink of the button is defined in the main body thereof.
11. The locking apparatus as claimed in claim 10, wherein the arm of the button perpendicularly extends from a rear end of the main body, the flange of the base defines an opening between the first holes of the battery compartment, a second plate extends rearwardly from the flange at an upper extremity of the opening, the second plate defines a second cutout, the main body of the button extends through the opening of the flange, and the arm of the button is engagingly received in the second cutout of the second plate.
12. The locking apparatus as claimed in claim 11, wherein the base further comprises a generally U-shaped third plate adjacent the second plate, the third plate defines a third cutout, a pair of fixing tabs extends rearwardly from the

flange toward the third plate, a pair of shoulders extends from opposite ends of the stop portion of the resilient member, and a pair of slanted wings extends from distal ends of the shoulders, the stop portion extends through the third cutout of the third plate, the shoulders abut a main face of the third plate, and the wings abut respective fixing tabs of the base.

13. A battery locking assembly comprising:

a battery;

a base defining a battery compartment accommodating the battery therein;

a resilient member secured to the base;

a first lock member secured to the base and receivingly engaged with the battery, the first lock member being slidable between a locked position to engage with the battery thereby securely attaching the battery in the base and an unlocked position to release the battery from the base, wherein in said locked position and unlocked position the resilient member abuts the first lock member to retain the first lock member in position;

a second lock member engaged with the first lock member, wherein the second lock member can be pushed in a first direction and an opposite second direction thereby causing the first lock member to be slid between said locked position and said unlocked position; and

a button arranged between the first lock member and the second lock member, wherein when the first lock member is in said locked position, the button can be pressed so that the second lock member can be pushed in said second direction thereby causing the first lock member to be slid to said unlocked position.

14. The battery locking assembly as claimed in claim 13, wherein further comprising a first spring arranged between the base and the first lock member, wherein when the first lock member is in the locked position, the first spring is in an original status, and when the first lock member is in the unlocked position, the first spring is in a compressed status.
15. The battery locking assembly as claimed in claim 13, further comprising a second spring, and the second spring is arranged between the first lock member and the button.
16. The battery locking assembly as claimed in claim 13, wherein the first lock member defines a first recess and a second recess, a stop is disposed above the first and second recesses, the resilient member comprises a stop portion, the stop portion of engages in the first or the second recess to retain the first lock member in said locked position or said unlocked position, and the stop prevents the stop portion from being upwardly displaced.
17. The battery locking assembly as claimed in claim 16, wherein the battery compartment defines a pair of spaced first through holes in a front wall thereof and a second through hole in a rear wall thereof, the battery defines a pair of spaced slots in alignment with the first through holes of the battery compartment in a front wall thereof, and the battery comprises a projection extending from a rear wall thereof and engaging in the second through hole of the battery compartment.
18. The battery locking assembly as claimed in claim 17, wherein each of the slots of the battery comprises a guide portion and a lock portion, the guide portion is bounded by a slanted face, and the first lock member further comprises a pair of posts extending through the second through holes of the battery compartment to be engagingly received in the locking portions of the slots of the battery.

19. The battery locking assembly as claimed in claim 18, wherein the base comprises at least one flange, the first lock member comprises a pin extending from an end thereof, the base comprises a first plate between the battery compartment and the flange, the first plate defines a first cutout, and the pin of the first lock member extends through the first spring and is received in the first cutout.